

Miniature circuit breaker 415 V 4-pole 15 kA D 20

| Model   |                                 |
|---|---------------------------------|
| product brand name  | Betagard                        |
| product designation   | Miniature circuit breaker       |
| General technical data  |                                 |
| number of poles   | 4                               |
| design of pole  | 4P                              |
| tripping characteristic class   | D                               |
| overvoltage category  | III                             |
| degree of pollution   | 2                               |
| Voltage   |                                 |
| type of voltage of the operating voltage  | AC                              |
| <b>insulation voltage (Ui)</b>  |                                 |
| • with single-phase operation at AC rated value                                     | 440 V                           |
| • with multi-phase operation at AC rated value                                      | 440 V                           |
| <b>operational current</b>  |                                 |
| • at 30 °C rated value  | 20 A                            |
| • at 40 °C rated value  | 19 A                            |
| • at 50 °C rated value  | 18 A                            |
| • at 55 °C rated value  | 17.6 A                          |
| • at 60 °C rated value  | 17.2 A                          |
| • at AC rated value   | 20 A                            |
| Supply voltage  |                                 |
| supply voltage at AC  | 415 V                           |
| value range of the supply voltage frequency   | 50/60 Hz                        |
| <b>operating voltage</b>  |                                 |
| • with multi-phase operation at AC maximum  | 440 V                           |
| Protection class  |                                 |
| protection class IP   | IP20, with connected conductors |
| Breaking Capacity   |                                 |
| <b>switching capacity current</b>   |                                 |
| • according to EN 60898 rated value   | 15 kA                           |
| • according to IEC 60947-2 rated value  | 15 kA                           |
| Dissipation   |                                 |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 1.8 W                           |
| suitability for operation   | Infrastructure / Industry       |
| Product details   |                                 |
| <b>product feature</b>  |                                 |
| • halogen-free  | Yes                             |
| • sealable  | Yes                             |
| • silicon-free  | Yes                             |
| Connections   |                                 |
| <b>connectable conductor cross-section solid</b>                                    |                                 |
| • minimum   | 0.75 mm <sup>2</sup>            |
| • maximum   | 25 mm <sup>2</sup>              |
| <b>connectable conductor cross-section stranded</b>                                 |                                 |
| • minimum   | 0.75 mm <sup>2</sup>            |
| • maximum   | 25 mm <sup>2</sup>              |
| <b>connectable conductor cross-section finely stranded with core end processing</b> |                                 |
| • minimum   | 0.75 mm <sup>2</sup>            |
| • maximum   | 25 mm <sup>2</sup>              |

|   |         |
|---|---------|
| tightening torque with screw-type terminals |         |
| • minimum                                   | 2.5 N·m |
| • maximum                                   | 3 N·m   |

#### Mechanical Design

|                               |       |
|-------------------------------|-------|
| height                        | 90 mm |
| width                         | 18 mm |
| depth                         | 76 mm |
| installation depth            | 70 mm |
| number of modular width units | 4     |
| mounting position             | any   |
| net weight                    | 598 g |

#### Environmental conditions

|   |        |
|---|--------|
| vibration resistance according to IEC 60068-2-6 | yes    |
| ambient temperature during operation            |        |
| • minimum                                       | -40 °C |
| • maximum                                       | 70 °C  |
| ambient temperature during storage              |        |
| • minimum                                       | -40 °C |
| • maximum                                       | 75 °C  |

#### Approvals Certificates

|                          |                   |       |
|--------------------------|-------------------|-------|
| General Product Approval | Test Certificates | other |
|--------------------------|-------------------|-------|



EG-Konf.

[Confirmation](#)



[Miscellaneous](#)

[Miscellaneous](#)

|       |             |
|-------|-------------|
| other | Environment |
|-------|-------------|

[Confirmation](#)

[Environmental Con-  
firmations](#)

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firmations](#)

#### Further information

##### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

##### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SL7420-8RC>

##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/5SL7420-8RC>

##### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL7420-8RC](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL7420-8RC)

##### CAX-Online-Generator

<http://www.siemens.com/cax>

##### Tender specifications

<http://www.siemens.com/specifications>





